

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Original) An amplifier system (1) for satellites including:
first and second amplifier modules (A₁, A₂) each having an input and an output,
a signal divider (D) having an input, a first output, and a second output,
a signal combiner (C) having a first input, a second input and an output,
said first output of said divider (D) being connected to said input of said first amplifier module (A₁) via a connection length L_{e1}, said second output of said divider (D) being connected to said input of said second amplifier module (A₂) via a connection length L_{e2}, said output of said first amplifier module (A₁) being connected to said first input of said combiner (C) via a connection length L_{s1}, said output of said second amplifier module (A₂) being connected to said second input of said combiner (C) via a connection length L_{s2}, and said connection length satisfying the equation L_{e1} + L_{s1} = L_{e2} + L_{s2}, which system is characterized in that the connection length L_{s1} is different from the connection length L_{s2}.

2. (Original) An amplifier system (1) for satellites according to claim 1 characterized in that said length L_{e1} is equal to said length L_{s2} and said length L_{e2} is equal to said length L_{s1}.

3. (Currently Amended) An amplifier system (1) for satellites according to either ~~claim 1 or claim 2~~claim 1 characterized in that at least one of said amplifier modules (A₁, A₂) is a traveling wave tube amplifier.

4. (Original) An amplifier system (1) for satellites according to claim 1 characterized in that at least one of said amplifier modules is a semiconductor SSPA.

5. (Original) An amplifier system (1) for satellites according to claim 1 characterized in that the connections between the outputs of said amplifier modules and the input of said combiner are waveguides.

6. (Original) An amplifier system (1) for satellites according to claim 1 characterized in that at least one of said amplifier modules (2) includes:

first and second amplifier submodules (A₁, A₂) each having an input and an output, a signal divider (d) having an input, a first output, and a second output, and a signal combiner (c) having a first input, a second input, and an output, said first output of said divider (d) being connected to said input of said first amplifier submodule (A₁) via a connection length Le₁₁,

said second output of said divider (d) being connected to said input of said second amplifier submodule (A₂) via a connection length Le₁₂,

said output of said first amplifier submodule (A₂) being connected to said first input of
 said combiner via a connection length L_{s11},

 said output of said second amplifier submodule being connected to said second input of
 said combiner via a connection length L_{s12},

 said connection lengths satisfying the equation L_{e11} + L_{s11} = L_{e12} + L_{s12}, and the connection
 length L_{s11} being different from the connection length L_{s12}.